

VP-601

VP-611

ASCII Keyboards Parallel Output

INSTRUCTION MANUAL



L-982

RCA Data Communications
Products

Key / Output Character Table

Keyboard	0	0	0	1	Control	Keyboard	0	0	1	Control
Key	0	1	X	X	Shift	Key	0	1	X	Shift
	*	X	#	X	U&L Case		X	X	X	U&L Case
A	a	A	A	SOH		0	0	0	NUL	
B	b	B	B	STX		1	1	!	NUL	
C	c	C	C	ETX		2	2	"	NUL	
D	d	D	D	EOT		3	3	#	NUL	
E	e	E	E	ENQ		4	4	\$	NUL	
F	f	F	F	ACK		5	5	%	NUL	
G	g	G	G	BEL		6	6	&	NUL	
H	h	H	H	BS		7	7	'	NUL	
I	i	I	I	HT		8	8	(	NUL	
J	j	J	J	LF		9	9	)	NUL	
K	k	K	K	VT		:	:	*	NUL	
L	l	L	L	FF		:	:	+	NUL	
M	m	M	M	CR		:	:	<	FS	
N	n	N	N	SO		-	-	=	GS	
O	o	O	O	SI		.	.	>	RS	
P	p	P	P	DLE		/	/	?	US	
Q	q	Q	Q	DC1		[	[	}	ESC	
R	r	R	R	DC2		\	\	:	NUL	
S	s	S	S	DC3		]	]	}	NUL	
T	t	T	T	DC4		^	^	~	NUL	
U	u	U	U	NAK		^	^	~	NUL	
V	v	V	V	SYN		DEL	DEL	-	DEL	
W	w	W	W	ETB		@	@	.	NUL	
X	x	X	X	CAN		SP	SP	SP	SP	
Y	y	Y	Y	EM		CR	CR	CR	CR	
Z	z	Z	Z	SUB		LF	LF	LF	LF	
						+	+	+	+	
						*	*	*	*	
						=	=	=	=	
						ESC	ESC	ESC	ESC	
						BS	BS	BS	BS	

1 - Key Pressed

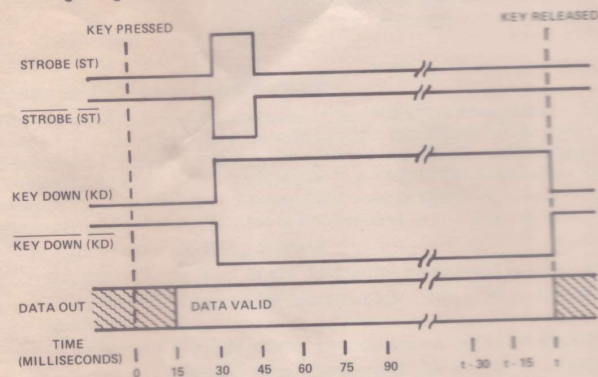
0 - Key Not Pressed

X - Don't Care

* - Pin 12 Connected to Ground

- Pin 12 Open

Timing Diagram


VP-601/VP-611 TIMING DIAGRAM
t = TOTAL TIME OF KEY PRESS
TIME SCALE APPROXIMATE

Connector - Rear View

2		20
1		19

MATING CONNECTOR: 3M PART
No. 3421-6020 OR EQUIVALENT

CAUTION: Inserting cable connector with power applied may cause permanent damage.

Character Set 128-character ASCII (102-character alphabetical upper-case-only selectable by user).

Keyboard:

VP-601 — 58-key typewriter format. Includes two user-definable keys (switch closures).

VP-611 — Same as above plus 16-key numeric entry keypad.

Rollover Two-key.

User Definable Keys Two. SPST (30 V, 0.1 A, 1 W max.)

Audio 1 kHz nom. 8-ohm speaker and volume control.

Power +5 VDC $\pm$ 5%, 85 mA nom.

Data 7-bit parallel ASCII, buffered.

Parity Even, unbuffered.

Handshake:

KD (Key Down), $\overline{KD}$. Signal remains until key is released.

Strobe, $\overline{\text{Strobe}}$. 15 ms nom. pulse duration after key activation.

LED Power-on indicator.

Connector 20-pin PC board header connector mates with 3M, 3421-6020 ribbon cable connector or equivalent.

Documentation Instruction Manual.

Size:

VP-601 — 13.1" L x 7" D x 2" H (333 x 178 x 51 mm).

VP-611 — 16.5" L x 7" D x 2" H (419 x 178 x 51 mm).

Shipping Weight:

VP-601 — 3 lbs. (1.4 kg) approx.

VP-611 — 3.5 lbs (1.6 kg) approx.

Environmental:

Temperature:

Operating — 0 to 50° C.

Storage — -40 to +85° C.

Humidity — 90% RH @ 30° C, non-condensing.

Vibration, 3 Axes — 0.3" p-p, 5 to 14 Hz — 3 g, 14 Hz to 2 kHz.

Shock, 3 Axes — 50 g, 11 msec, half sine.

Optional Accessories

Interface Cable. 36" flat ribbon cable with mating connector and unterminated end — VP-623.

VP-604 — Equivalent to VP-601 less case.

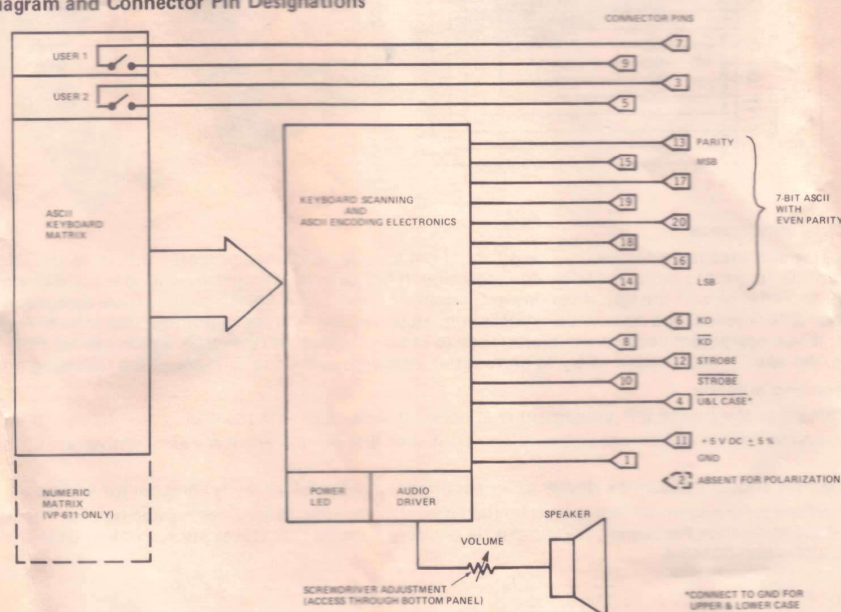
VP-614 — Equivalent to VP-611 less case.

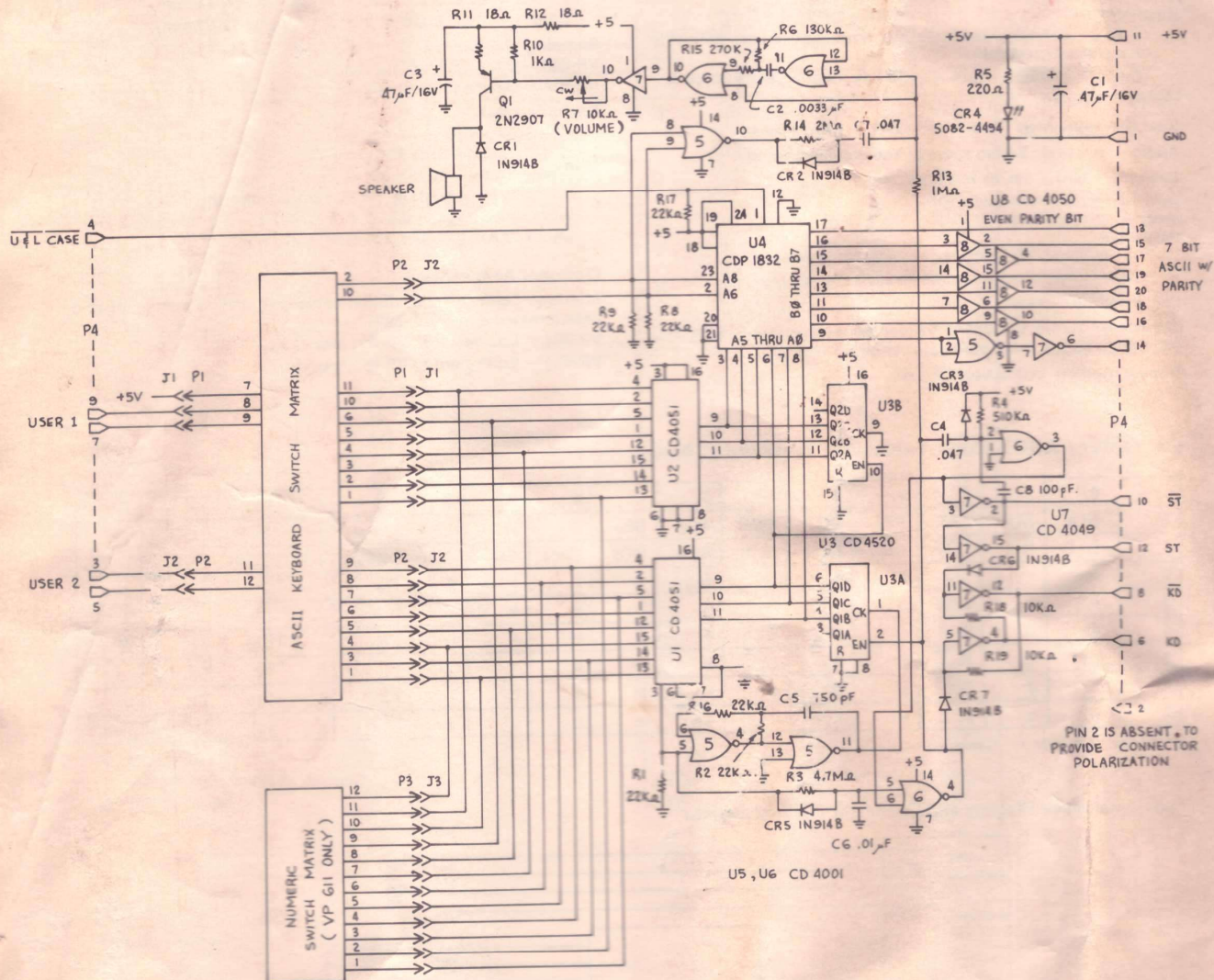
Character / ASCII Code Table: ASCII (Without Parity)

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	NUL	SOH	STX	ETX	EOT	ENQ	ACK	BEL	BS	HT	LF	VT	FF	CR	SO	SI
1	DLE	DC1	DC2	DC3	DC4	NAK	SYN	ETB	CAN	EM	SUB	ESC	FS	GS	RS	US
2	SP	!	"	#	\$	%	&	/	(	)	*	+	,	-	.	/
3	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
4	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
5	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_
6		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
7	p	q	r	s	t	u	v	w	x	y	z	{		}	~	DEL

Examples: A is Code 41. Carriage Return OD

Functional Block Diagram and Connector Pin Designations





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